



Telecommunications



Data centers



Industries



Renewable

SUPERVISORY MODULE (SM3X) SUPENASM SERIES

enATEL
energy



DESCRIPTION

The SM3X range of microcontroller supervisory modules provide the control and monitoring functions for the Enatel RM Series rectifiers, CM Series DC/DC converters and IM Series inverters.

The SM3X monitors all power system conditions including DC voltage, rectifier current, battery current, battery temperature and distribution failure. Visual notifications of alarm conditions are given by LEDs and a 4 line x 16 character alpha numeric LCD, with remote notification being enabled by relay contacts or TCP/IP (using SNMP). It has a built-in web-based configurator allowing setup of system parameters using a web browser.

The SM3X range utilizes a USB communications port which allows for local monitoring of system operations as well as easy downloading of configuration files for multiple site installations.

KEY FEATURES

- Serial control for up to 168 rectifiers or converters, plus peripheral devices
- Periodic and event logging of up to 16,384 records each
- Multiple language options
- Temperature compensation
- Battery current limiting
- Multiple LVD Control
- Fast charge control and timer
- Web-based configuration
- TCP/IP interface and SNMP for remote monitoring
- USB port for local connection
- Multiple digital and analogue I/O expansion option
- Battery mid-point monitoring

SUPERVISORY MODULE (SM3X)

SUPENASM SERIES



SPECIFICATIONS

	SUPENASM3536	SUPENASM3334
DC INPUT		
Rated Voltage	80–160V DC	16–75V DC
Input Current	<50mA maximum	<150mA maximum
MONITORING AND CONTROL		
Display	Single phase (refer to rectifier spec for full details)	Three phase (refer to rectifier spec for full details)
Communications	Serial: TCP/IP: Modbus:	1x USB port on front panel for local PC interface Ethernet interface for communication using SNMP protocol v1/v2c/v3 and internal web based configurator Supported via TCP/IP
LED Indicators	Green: Yellow: Red:	Power on/monitor OK Non-urgent alarm Urgent alarm
Audible	90dBA buzzer mappable to user-defined conditions	
Controls	3x push buttons for parameter-setting or viewing on front panel	
Signal Inputs	Serial bus for rectifier control and interface to peripheral modules, 3x digital inputs, 2x temperature sensors (one fitted by default)	Serial bus for rectifier control and interface to peripheral modules, 6x digital inputs, 2x temperature sensors (one fitted by default)
Alarms	3x alarm relays, two of which can be mapped for customized alarm settings	6x alarm relays, five of which can be mapped for customized alarm settings
Alarm Contacts	0.3A 100V volts free changeover contacts	
Logging Capacity	Periodic log, 16,384 records (dependent on number of parameters logged) Event log, 16,384 records (dependent on number of parameters logged)	
Connections	Relay outputs, mini combicon to accept 1.5mm ² wire USB port, USB mini B	
ENVIRONMENTAL REQUIREMENTS		
Ambient Temperature	-20°C to +70°C (maximum output power is derated above 55°C)	
MECHANICAL		
Dimensions (W, H, D)	111.5mm, 44.0mm (1U), 282.0mm	
Weight	1.50kg	
COMPLIANCES		
Safety	EN60950	
Other	CE & RoHS compliant	
PART NUMBERS		
SM33	Standard monitor featuring full temperature compensation, automated and manual battery testing/equalization	
SM34	Enhanced monitor featuring full temperature compensation, automated and manual battery testing/equalization with TCP/IP	
SM35	Standard monitor featuring full temperature compensation, automated and manual battery testing/equalization	
SM36	Enhanced monitor featuring full temperature compensation, automated and manual battery testing/equalization with TCP/IP	



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